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Structure of chloroplasts.—The examination of living and fixed chloroplasts of *Chlorophytum* and *Selaginella* convinces PRIESTLY and IRVING³³ that the chlorophyll occupies the peripheral layer, 1–3 μ thick, where it is held in the meshes of a network. The observations of TIMIRIAZEFF and NÄGELI on the splitting of the chloroplast when placed in a solution of low osmotic pressure are confirmed.—C. R. B.

Zymase from Aspergillus.—JUNITZKY³⁴ finds that the aerobically cultivated mycelium of *Aspergillus* always contains some zymase. He regards this result as favoring rather than as opposing the theory of the genetic connection of alcohol-fermentation with aerobic respiration.—RAYMOND H. POND.

Carex in N. W. America.—HOLM³⁵ has published an account of the genus *Carex* in northwestern America, the topics being (1) a synopsis of the species, (2) types characteristic of northwest America, and (3) the geographical distribution of the Carices of northwest America.—J. M. C.

Rate and period of growth of Polyporus.—EDGERTON³⁶ has found that the growth of *Polyporus lucidus* is exogenous and averages about 0.5^{cm} a day for the growing-period; and that the change in the development from stalk to pileus is a gradual process.—J. M. C.

Julianaceae.—The full paper dealing with this interesting new family of Mexican plants has now appeared.³⁷ The preliminary abstract for presentation before the Royal Society was noticed in this journal.³⁸—J. M. C.

Aerenchyma.—WITTE³⁹ describes and figures the aerenchyma in *Lysimachia vulgaris* produced in stems in water, and records the production of this tissue in seven species of the Swedish flora.—C. R. B.

³³ PRIESTLY, J. H., and IRVING, ANNIE A. The structure of the chloroplast considered in relation to its function. *Annals of Botany* 21:407–413. figs. 2. 1907.

³⁴ JUNITZKY, N., Ueber Zymase aus *Aspergillus niger*. *Ber. Deutsch. Bot. Gesells.* 25:210–212. 1907.

³⁵ HOLM, THEO., The genus *Carex* in northwest America. *Beih. Bot. Centralbl.* 22:1–29. 1907.

³⁶ EDGERTON, C. W., The rate and period of growth of *Polyporus lucidus*. *Torreya* 7:89–97. 1907.

³⁷ HEMSLEY, W. BOTTING, On the Julianaceae: a new natural order of plants. *Phil. Trans. Roy. Soc. London B* 199:169–197. pls. 18–24. figs. 23. 1907.

³⁸ BOT. GAZETTE 42:236. 1906.

³⁹ WITTE, HERNFRID, Ueber das Vorkommen eines aërenchymatischen Gewebes bei *Lysimachia vulgaris* L. *Bot. Studier tillägnade F. J. KJELLMAN* 265–274. figs. 10. Upsala. 1906.